**Test-cases-v1.0**

A white paper with a logo and pen on top of it

AI-generated content may be incorrect.

Όνομα Έργου: Train-Up

Κωδικός: Test-cases

Έκδοση: v1.0

**Μέλη Ομάδας**

* Σκαραφίγκας Βασίλειος, ΑΜ: 4491.
* Χριστόπουλος Κωνσταντίνος, ΑΜ: 4527.

**Κατανομή Ρόλων στο παρών τεχνικό κείμενο**

* Σκαραφίγκας Βασίλειος: Contributor, Peer Reviewer
* Χριστόπουλος Κωνσταντίνος: Contributor, Peer Reviewer

Στο παρόν τεχνικό κείμενο όλα τα μέλη της ομάδας συνεισέφεραν εξίσου στην υλοποίηση των περιπτώσεων ελέγχου του έργου.

Ο σύνδεσμος για το repository της ομάδας μας στο Github είναι [εδώ](https://github.com/KonstantinosC7/TrainUp).

**Περιπτώσεις Ελέγχου**

Το παρόν τεχνικό κείμενο καθορίζει περιπτώσεις δυναμικών (black-box) δοκιμών για βασικές λειτουργίες της εφαρμογής TrainUp. Εφαρμόζουμε ισοδυναμική κατάτμηση (Equivalence Partitioning) και ανάλυση οριακών τιμών (Boundary Value Analysis) όπου είναι δυνατόν και εκτελούμε κάθε περίπτωση δοκιμής για να επαληθεύσουμε τη συμμόρφωση με τις απαιτήσεις.

**1. Student: Υποβολή αίτησης σε διαθέσιμη θέση πρακτικής**

**Test Method:** Functional (black-box), Equivalence Partitioning

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-S1 | Valid application | studentId=10 (exists, no assignment), positionId=5 (unassigned) | Application recorded; button shows "Already applied" |
| TC-S2 | Already assigned traineeship | studentId=10 (assigned already), positionId=6 | Error message: "You already have a traineeship assigned!"; no new application |
| TC-S3 | Nonexistent position | studentId=10, positionId=999 (not in DB) | Redirect to error/no-action; no change in DB |

**2. Student: Δημιουργία προφίλ φοιτητή**

**Test Method:** Functional, Equivalence Classes & Boundary Values

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-P1 | Valid new profile | username="user1", password="Pass123!", email="[u1@example.com](mailto:u1@example.com)" | Redirect to login; verification email sent |
| TC-P2 | Duplicate username | username="existing", password="x123", email="[u2@example.com](mailto:u2@example.com)" | Validation error: "Username already in use!"; stay on form |
| TC-P3 | Invalid email format | username="newuser", password="x123", email="not-an-email" | Validation error: "Email already in use!" or format error |

**3. Student: Ενημέρωση logbook φοιτητή**

**Test Method:** Functional, Boundary Value (content length)

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-L1 | Valid update | studentId=10, positionId=5, log="10h work" | Logbook saved; updated text appears on screen |
| TC-L2 | Empty log entry | studentId=10, positionId=5, log="" | Validation error: "Please fill out this field"; no save |
| TC-L3 | Unauthorized access | studentId=11 (no assignment), positionId=5 | Runtime exception / error page |

**4. Company: Ανάρτηση νέας θέσης πρακτικής άσκησης**

**Test Method:** Functional, Boundary Value (dates)

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-C1 | Valid position post | title="Dev", fromDate=2025-06-01, toDate=2025-07-01, skills="Java" | Position appears in available list for company and students |
| TC-C2 | End date before start date | fromDate=2025-07-01, toDate=2025-06-01 | Validation error: date constraint; form redisplayed |
| TC-C3 | Missing required field | title="", fromDate=2025-06-01, toDate=2025-07-01 | Validation error: "Please fill out this field" on title |

**5. Company: Διαγραφή θέσης πρακτικής άσκησης**

**Test Method:** Functional

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-D1 | Valid deletion | positionId=5 (exists, unassigned) | Entry removed; no longer appears in available list |
| TC-D2 | Deletion of assigned position | positionId=6 (assigned) | Operation disallowed or confirmation; if forced, assignment cleared |
| TC-D3 | Nonexistent position | positionId=999 | No action; error/log message; UI unchanged |

**6. Professor: Αξιολόγηση θέσης από επιβλέποντα καθηγητή**

**Test Method:** Functional, Equivalence Partitioning (ratings 1–5)

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-PF1 | Valid ratings | positionId=7, motivation=4, efficiency=5, effectiveness=3 | Saved; persisted in database; reflected in supervisor UI |
| TC-PF2 | Out-of-range rating | motivation=6, efficiency=0 | Validation error: "value must be 1-5"; form redisplayed |
| TC-PF3 | Missing rating field | effectiveness=null | Validation error; form redisplayed |

**7. Company: Αξιολόγηση θέσης από εταιρεία**

**Test Method:** Functional, Equivalence Partitioning (ratings 1–5)

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-CE1 | Valid company evaluation | positionId=7, motivation=3, efficiency=4, effectiveness=5 | Saved; shown in position details |
| TC-CE2 | Partial evaluation (missing field) | efficiency=4, effectiveness=4 (motivation missing) | Validation error; form redisplayed |

**8. Profile Editing: Επεξεργασία προφίλ (φοιτητή, καθηγητή, εταιρείας)**

**Test Method:** Functional, Boundary Value (field lengths)

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-E1 | Valid update | update biography with 500 chars | Saved; new text visible |
| TC-E2 | Exceed max length | biography with 5001 chars | Validation error: "Maximum length exceeded"; no save |
| TC-E3 | Missing mandatory field | phone=null | Validation error: "Please fill out this field" |

**9. Committee: Ανάθεση θέσης πρακτικής σε φοιτητή**

**Test Method:** Functional

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-CM1 | By Interests strategy | applicantId=10, strategy="ByInterests" | Position list filtered by Jaccard ≥ threshold; assignment saved |
| TC-CM2 | No matching positions | strategy yields empty list | "No matching positions found" |

**10. Committee: Ανάθεση επιβλέποντα καθηγητή σε θέση**

**Test Method:** Functional

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-CM3 | By Load strategy | positionId=7, strategy="ByMinLoad" | Professor with fewest supervised positions assigned |
| TC-CM4 | No suitable professor | none meet threshold | "No suitable professor found." |

**11. Committee: Ολοκλήρωση θέσης πρακτικής άσκησης**

**Test Method:** Functional

|  |  |  |  |
| --- | --- | --- | --- |
| TC ID | Description | Input | Expected Result |
| TC-CM5 | Complete pass | positionId=7, passOrFail=Pass | Student.tr completed set to "Pass"; removed from active list |
| TC-CM6 | Missing company evaluation | companyEval=null, profEval=4 | "company evaluation is missing"; cannot finalize |

Εργαλεία που χρησιμοποιήθηκαν

Η συγγραφή του παρόντος τεχνικού κειμένου έγινε με την χρήση του Microsoft Word